# PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPPC00590	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.					
International application No. PCT/AU2004/001254	International filing date (day/month/yell 16 September 2004	(Earliest) Priority Date (day/month/year) 14 October 2003					
Applicant  LIVE MEDIA PTY LTD et al							
This international search report has been prep Article 18. A copy is being transmitted to the	ared by this International Searching Au International Bureau.	thority and is transmitted to the applicant according to					
This international search report consists of a t		a senart					
	y of each prior art document cited in thi	s report.					
Basis of the report      With regard to the language, the interit was filed, unless otherwise indicate		basis of the international application in the language in which					
·	ch was carried out on the basis of a tran	slation of the international application furnished to this					
	• •	in the international application, see Box No. I.					
2. Certain claims were found un	searchable (See Box No. II).						
3. Unity of invention is lacking (	See Box No. III).						
4. With regard to the title,		•					
X the text is approved as submitte	ed by the applicant.	·					
the text has been established by	this Authority to read as follows:						
5. With regard to the abstract,							
the text is approved as submitte	ed by the applicant.	·					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. With regard to the drawings,	-						
a. the figure of the drawings to be publ	ished with the abstract is Figure No. 1						
X as suggested by the ag	oplicant.	•					
as selected by this Au	as selected by this Authority, because the applicant failed to suggest a figure.						
as selected by this Au	thority, because this figure better chara-	cterizes the invention.					
b. none of the figures is to be pub	lished with the abstract.						

IAPS REC'OPETIPTO 13 APR 2006

### INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/001254

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such
an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
See Supplemental Box
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1 to 10 and 46, *and claims 48 and 51 in so far as they are appended to claims 8 to 10 only
Remark on Protest  The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

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Box No. IV Text of the Abstract (Continuation of item 5 of the first sheet)	
A distributed computer network includes a front interface on a first computer and a corresponsecond computer wherein instructions communicated from the first to the second computer of from a set of one or more available encodings. Instructions may also be communicated by enaccording to a communications protocol selected from a set of available communications produced to a virtual computer, a method of executing an instruction in a virtual computer, and	an be selectively encoded coding the instruction stocols. Claims are also
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### A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: . G06F 9/445, G06F 15/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
USPTO, DWPI, esp@cenet, citeseer: instruction, encode, decode, stub, skeleton, virtual-machine, bytecode, unicode, endian, network

### C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to Category\* Citation of document, with indication, where appropriate, of the relevant passages claim No. 8-10, 48, 51 $\overline{\mathbf{x}}$ US-2003/0140180-A1 (BROWN et al.) 24 July 2003 See whole document X EP-0766172-B1 (SUN MICROSYSTEMS, INC.) 2 April 1997 1-7, 46 See Column 10 line 1 to column 15 line 22 A US-6578193-B1 (ADAMS) 10 June 2003 See abstract US-2003/0009539-A1 (HATTORI) 9 January 2003 See abstract

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	X Further documents are listed in the con	ntinuat	tion of Box C X See patent family annex
"A" "E" "U" "O"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance  earlier application or patent but published on or after the international filing date  document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"Y"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
•	of the actual completion of the international search		Date of mailing of the international search report 2 2 DEC 2004
Name	and mailing address of the ISA/AU		Authorized officer
POB	IRALIAN PATENT OFFICE OX 200, WODEN ACT 2606, AUSTRALIA il address: pct@ipaustralia.gov.au		MICHAEL HARDY

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	US-6421733-B1 (TSO et al.) 16 July 2002 See whole document  WO-1998/006034-A1 (GENERAL MAGIC, INC.) 12 February 1998 See whole document					
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### Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

### Continuation of Box No: III

Lack of unity of invention; overview of the inventions claimed:

Group (1): Claims 1 to 10 and 46 relate to a network, method and architecture for communicating instructions between at least two devices wherein selection means is provided for selecting an encoding protocol for the instructions from a set of available encoding protocols.

Group (2): Claims 11 to 14 relate to a virtual computer having an object stack or heap and an instruction set.

Group (3): Claims 15 to 18, 49 and 52 relate to a method, apparatus and computer program product for executing an instruction set using a virtual computer wherein the virtual computer is serialised to a data buffer in a first device and then transmitted to a second device.

Group (4): Claims 19 to 45, 47, 50 and 53 relate to a communications format, method, architecture, apparatus and computer program product for providing communications between two devices wherein the format has a first portion representing data and a second portion representing metadata.

\*Claims 48 and 51 also relate to the invention of Group (1) in so far as they are appended to claims 8 to 10 and relate to the invention of Group (4) in so far as they are appended to claims 32 to 44. A comprehensive search of claims 48 and 51 would necessarily require two separate searches, a search for the invention of Group (1) and a search for the invention of Group (4).

Although all these inventions are applicable to the general field of networked computer systems there is no special technical feature common to all four sets of claims as required by Rule 13.2

Information on patent family members

International application No.
PCT/AU2004/001254

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report							
US	20030140180					•	
EP	0766172	л	9231076	US	5737607		
US	6578193	US	6141732	US	6356996	US	6408384
US	20030009539						
US	6421733	AU	68656/98	BR	9811457	EP	1012733
	·	US	5902846 <sup>-</sup>	wo	9843177		_
wo	98/06034						

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

**END OF ANNEX**